

**MOBILE COMMUNICATION DEVICES HAVING HIGH FREQUENCY NOISE
REDUCTION AND METHODS OF MAKING SUCH DEVICE**

ABSTRACT

In accordance with the disclosed embodiment of the present invention, there is provided a technique to control and manage where the currents flow produced by noise producing components such as transmitters, and how to specifically exclude them from critical areas, such as where noise sensitive components are disposed. Such noise sensitive components may include oscillators and other components. According to a disclosed example of the present invention, an electrically-isolated area at least partially surrounds one or more noise-sensitive components. As disclosed herein, a gap in the elongated area receives one or more traces such as power plane, ground plane and signal traces for the partially surrounded component or components.